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(54) Title: INTERFERENCE PIGMENTS ON THE BASIS OF SILICON OXIDES

(57) **Abstract:** The present invention relates to pigments, the particles of which generally have a length of from 2 µm to 5 mm, a width of from 2 µm to 2 mm, and a thickness of from 20 nm to 2 µm, and a ratio of length to thickness of at least 2 : 1, wherein the particles contain a core of SiO_y with 0.70 ≤ y ≤ 1.8, especially 1.40 ≤ y ≤ 1.8, having two substantially parallel faces, the distance between which is the shortest axis of the core, comprising (a) a material, especially a metal oxide, having a high index of refraction; or (a) a thin semi-transparent metal layer; a process for their production and their use in paints, ink-jet printing, for dyeing textiles, for pigmenting coatings (paints), printing inks, plastics, cosmetics, glazes for ceramics and glass.